

## **IN THE CLAIMS**

**1-35. (Cancelled)**

**36. (New)** A method of data communications, comprising:

receiving a data packet having classification information;

identifying a Quality of Service (QoS) to associate with the data packet based at least in part on the classification information;

placing the data packet in a QoS queue corresponding to the associated QoS; and

scheduling the data packet to be transmitted with other data packets from the QoS queue at or above a minimum bandwidth allocation corresponding to the associated QoS.

**37. (New)** The method of claim 36, wherein identifying the QoS based at least in part on the classification information comprises identifying the QoS based at least in part on a source identifier and a destination identifier for the data packet.

**38. (New)** The method of claim 36, wherein identifying the QoS based at least in part of the classification information comprises identifying the QoS based at least in part on a packet type of the data packet.

**39. (New)** The method of claim 36, further comprising

assigning a queue threshold number to the QoS queue; and

wherein placing the data packet in the QoS queue further includes adding the data packet to the QoS queue if a number of packets in the QoS queue does not exceed the threshold number.

**40. (New)** A network device comprising:

a receive port to receive a data packet having classification information;

a logic circuit to identify a Quality of Service (QoS) to associate with the data packet based at least in part on the classification information, and place the data packet in a QoS queue corresponding to the associated QoS; and

a scheduler to dequeue the data packet with other data packets from the QoS queue and allocated at least a minimum bandwidth corresponding to the associated QoS for transmission.

**41.** (New) The network device of claim 40, wherein the logic circuit identifies the QoS based at least in part on a source identifier and a destination identifier for the data packet.

**42.** (New) The network device of claim 40, wherein the logic circuit identifies the QoS based at least in part on a packet type of the data packet.

**43.** (New) The network device of claim 40, further comprising the logic circuit to assign a queue threshold number to the QoS queue, and wherein the logic circuit adds the data packet to the QoS queue if a number of packets in the QoS queue does not exceed the threshold number.